

Product datasheet for **SC328545**

PDHB (NM_001173468) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDHB (NM_001173468) Human Untagged Clone
Tag:	Tag Free
Symbol:	PDHB
Synonyms:	PDHBD; PDHE1-B; PDHE1B; PHE1B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC328545 representing NM_001173468. Blue=Insert sequence Red=Cloning site Green=Tag(s)

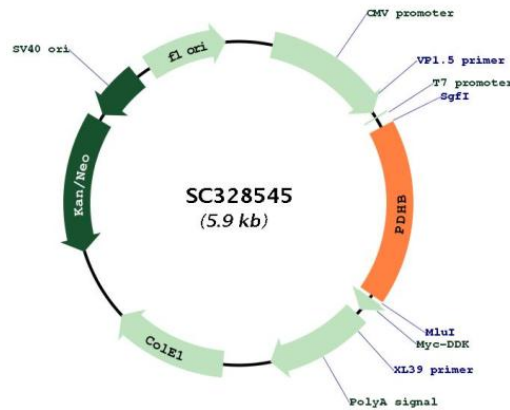
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CACTGGACCGCGCCGGCTGCGCTGCAGGTGACAGTTCTGTGATGCTATAAATCAGGGTATGGATGAGGAG
CTGGAAGAGATGAGAAGGTATTTCTGCTTGGAGAAGAAGTTGCCAGTATGATGGGGCATAACAAGTT
AGTCGAGGGCTGTGGAAGAAATATGGAGACAAGAGGATTATTGACTCCCATATCAGAGATGGGCTTT
GCTGGAATTGCTGTAGGTGCAGCTATGGCTGGGTTGCGGCCCATTTGTGAATTTATGACCTCAATTTTC
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TCAGAGGATGCTAAAGGACTTATAAATCAGCCATTCGGGATAACAATCCAGTGGTGGTGTAGAGAAT
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CTGGATGCTCCTGCTGTTCTGTCAGTGGTGTGATGTCCCTATGCCTTATGCAAAGATTCTAGAGGAC
AACTCTATACCTCAGGTCAAAGACATCATATTTGCAATAAAGAAAACATTAATATTTAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:



ACCN: NM_001173468

Insert Size: 1026 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method: 1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_001173468.1](#)

RefSeq Size: 1490 bp

RefSeq ORF: 1026 bp

Locus ID: 5162

UniProt ID:	P11177
Cytogenetics:	3p14.3
Protein Pathways:	Butanoate metabolism, Citrate cycle (TCA cycle), Glycolysis / Gluconeogenesis, Metabolic pathways, Pyruvate metabolism, Valine, leucine and isoleucine biosynthesis
MW:	37.5 kDa
Gene Summary:	<p>The pyruvate dehydrogenase (PDH) complex is a nuclear-encoded mitochondrial multienzyme complex that catalyzes the overall conversion of pyruvate to acetyl-CoA and carbon dioxide, and provides the primary link between glycolysis and the tricarboxylic acid (TCA) cycle. The PDH complex is composed of multiple copies of three enzymatic components: pyruvate dehydrogenase (E1), dihydrolipoamide acetyltransferase (E2) and lipoamide dehydrogenase (E3). The E1 enzyme is a heterotetramer of two alpha and two beta subunits. This gene encodes the E1 beta subunit. Mutations in this gene are associated with pyruvate dehydrogenase E1-beta deficiency. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Mar 2012]</p> <p>Transcript Variant: This variant (2) lacks a segment in the coding region compared to variant 1. The resulting protein (isoform 2) is shorter but has the same N- and C-termini compared to isoform 1.</p>